

AGRICULTURAL.

Devoted to the Interests of Farmers and Stockmen.

Cheese-Making.

The following is from the pen of Frank D. Holmes, of Owatonna, Minn., one of the most successful dairymen of that State:

To make good cheese it is necessary to have good milk to begin with, and good milk cannot be had from poor, half-fed cows. Then it is necessary to feed the cows liberally, have plenty of good water and good usage. Cows should never be run and worried by dogs. This injures milk for cheese-making. One bad mess of milk may spoil a whole vat of cheese. Care and cleanliness, if the cows are healthy and have proper food, will insure good milk always. It is unreasonable to expect a good cheese-maker to turn a prime article of cheese out from poor milk. If a patron carries sour or tainted milk to the factory, he must expect bad, sour cheese. Set the night's milk in the vats or cans and cool to 60 degrees, then mix with the morning's milk in the morning, but don't use the little skimmer. Leave the cream all in. After the milk is all in the vats, the heat may be started at once, and raised to about 82 or 84 degrees, as to the condition of the cheese room. If we set the milk below 82 the rennet works too slow; if set above 82 it works too fast, while the temperature is being raised. It should receive frequent stirrings to keep the cream from rising, and thus becoming partially wasted or drawn off from the whey. The rennet should next be added until the temperature stops rising; then enough rennet should be stirred in and should be agitated at least fifteen minutes, and coagulation should begin in about twenty minutes—the stirring after the rennet is in to prevent the cream from rising and waste. In a cool room, when the surface cools quickly and there is a falling of the temperature of the milk, there will be a thin cream on the surface; this will form a soft curd, which will stick to the vat and be very annoying. If you want a quick-curing cheese, more rennet should be added than one to be cured slowly and kept some time. As a rule the more rennet used the lower the temperature should be at which the milk is set and the curd worked. After the milk begins to thicken, a cloth should be spread over the vat to keep the surface warm. There should be no raising of the temperature after the rennet is added and the milk comes to a standstill until the curd is cut fine. The curd should be cut as soon as it will break clean across the finger when placed in it and raised gently upward; the early cutting is very necessary; the clearest whey is always obtained by cutting early; the whey runs from the curd much more readily when it is young and tender. This is the object of cutting the curd to get out the whey; the curd should be cut with both a horizontal and perpendicular knife. Never let the curd get tough and leathery cutting, as there is always more waste and not as fine a curd. Cut the curd very fine, the finer the better, as it expels the whey easier and more thoroughly and cooks more evenly, and gets an easier action of the rennet.

After the cutting is done and the curd commences to settle, the heat may be started at once, but not rapidly. If the action of the rennet is slow, it is better to wait a few minutes for the curd to harden a little. After the heat is turned on, gently stir the mass to keep the curd from packing together and to keep a more even temperature through the vat; as the heat rises the harder the curd gets and the less liable to injure the curd; but keep up this stirring till the curd is heated up to 98 degrees or blood heat, where it should take at least one hour after the heat is turned on. This temperature should be kept until the curd is cooked, because the action of the rennet is more perfect than at any other degree. Before the curd is done cooking some of the whey may be drawn off, as it is more easy to handle the balance in the vat. After the curd is cooked—which every cheese-maker is able to tell—the whey should be drawn off before the acid comes on. Many curds, by remaining in the whey too long, make a soggy, hard, sour cheese. This kind of cheese is not desirable, but is the kind of cheese we get if the acid comes on while in the whey. The acid takes off with the whey the finest part of the cheese. Then I would have the curd cooked before the acid comes on, and be sure and dip the curd sweet, and if you have a curd sink to drain on, so much the better, and if you do not have a curd mill, would salt all at once, as this keeps the curd from packing. If you have a curd mill let it lie until acid comes on, only stir once in a while to let the whole expose to the air; after the acid comes on, grind and salt, and put to press at about 80 degrees, as at this heat you will get a good face, and press well together; let this stand twelve hours in the press, then remove to the curing room. First-class cheese may be spoiled by having a poor room to cure it in, too cold or too hot. Seventy degrees to start with is about the right temperature, then after ten days a little cooler, say about 65 degrees. I had good results of curing in a day cellar at 65 degrees. They cure slowly, but are the better cheese for it. One good cheese is worth three poor ones.

The United States Ahead.

Agriculture is regarded as the solid foundation of a nation. The tillers of the soil are industrious, healthy, sober-minded, reliable in time of danger, simple and honest in their views of political questions. But it is probable that it is because they feed the world that they are regarded as the

rock upon which the great nations rest. Food in war or in days of peace is the first thing essential to existence and success, and the steady, industrious class that is engaged in agriculture is therefore regarded as the most useful and valuable in the nation.

The United States leads the world in the amount that it produces in agriculture.

Not only in the aggregate of all industries is the United States far in advance, but in this single industry, that is looked upon as the most important in any nation, it far outranks all countries. In the comparatively brief space of one hundred years such vast areas in this country have been brought under the plow that our harvest is now the greatest in the world. And what tremendous effort and labor it has cost to bring virgin prairies under cultivation, to fell the forests for the plow, to fence, to put up barns, to put up dwellings, to sow and to reap. It represents the work of three generations of as laborious, as bold and as determined a class as ever lived. Much of the work was done in the face of great personal danger. The pioneers had not only to face hard work, but a sleepless and merciless savage. Against sudden massacre, against ambushed rifles, against the midnight torch, the pioneer farmers built their log cabins, put up their fences and furrowed the soil and achieved a result that puts the United States far in advance of every other country in the world in regard to the amount it produces from the soil.

Potato Culture.

After careful study of the causes of potato rot and means of prevention, Ontario Agricultural College sets forth the following rules:

- 1. As soon as discovered, dig the potatoes. Delay will allow it to spread to the stems and thence to the tubers. If it reaches these and damp weather comes, rot will certainly appear.
2. After digging, the potatoes should be put in a cool, dry place, thus surrounding them with conditions unfavorable for the growth of the fungus, if any happens to be upon them.
3. Growing early varieties is worthy of consideration, so that they may mature before the season arrives when this parasite is likely to affect the crop.
4. All potato stalks in affected lands, should be gathered and burned, so as to destroy the millions of spores which may be upon them.
5. Use none but good seed. If at all affected, reject them; and plant in well drained land. If the potatoes to be used for seed have been taken from cellars where affected ones were kept, they are likely to have the microscopic spores on them and escape notice. It would be best to get seed from unaffected districts.
6. It is scarcely necessary to remark that it would be injudicious to plant potatoes in the same field the following year, after a visitation of the "rot," inasmuch as the ground may retain the germs of disease.
7. Avoid planting upon heavy clay soil, but prefer a light and dry soil. This presents the fewest conditions suitable for the growth of the fungus.
8. Plant the varieties least affected.

Russia imports annually raw cotton to the value of \$43,000,000.

Because poultry is claimed to pay large profits in proportion to the amounts invested therein, it does not follow that all who venture in the poultry business will get rich or make money. It requires capital to conduct great enterprises, and if large amounts are expected large sums must be invested. It is a mistake to lead persons into the belief that there are enormous profits in poultry. But few persons have large sums invested, and a test has never yet been made as to what could really be accomplished. Those who have succeeded know that it is the man or woman, and not always the birds, that makes the success. Like any other business, one must thoroughly understand it. Keeping a few flocks of fowls, and venturing upon the management of thousands, are different operations. A small flock could be well kept where thousands could not exist. Yet there are no impossibilities, and as we progress in the art of poultry raising, the business becomes easier and more perfectly understood.

The practice of putting milk warm from the cow directly into tight cans and subjecting it to a warm atmosphere is reprehended by a medical authority. Poisonous properties sufficient to cause unpleasant symptoms are said to be liable to arise from so doing. Cool the milk before canning, and keep at a cool temperature afterward.

Give the pig what you feed the worthless cur—the necessary appendage to so many farms. If the pigs are fed what he consumes, there will be a gain on the farm in many ways. There will be one more fat hog for the family supply or for market. There will be peace, where with his presence there are often wry tempers. The stock on the farm is quieter and more easily controlled. Substitute a pig for the pup, and place yourself on a sure basis for profit.

Some little interest has been excited by the announcement of the discovery of a new and remarkable variety of asparagus on the steeps of Akhal-Tekiz. It has not been botanically identified, but it is represented as growing perfectly wild, the stalks being nearly as thick as a man's arm and attaining a height of five or six feet, so that one of them is said to suffice ten Russian soldiers for a meal. If the preference of experts for wild asparagus finds justification in this variety, and its flavor is described as equal to that of the best European kinds, asparagus lovers may have a good time before them.

According to the most careful estimates the population of the United States has increased about 11,500,000 during the last seven years, and of this increase 7,500,000 have been of American, and 3,800,000 of foreign birth.

THE BEGINNING OF THE END.

The beginning of disease is a slight debility or disorder of some of the vital organs, the stomach, the liver or the bowels usually. There are dyspeptic symptoms, the liver is troubled, the skin grows tawny and unhealthy looking, there are pains in the right side or through the right shoulder blade. The climax is often an utter prostration of the physical energies, perhaps a fatal issue. But if the difficulty is met in time with Hostetter's stomach bitters, which is always effective as a remedy, and it should be resorted to at an early stage, there will be no reason to apprehend those injurious subsequent effects upon the system often entailed by entirely cured diseases. Far better is it, also, to employ this safe remedial agent in fever and ague, and other malarial complaints, than quinine and other potent drugs, which, even when they do prove effectual for a time, ruin the stomach and impair the general health.

James Gordon Bennett is to start a new English daily in Paris.

WHAT WOULD THE WORLD DO

Without woman I ask the essayist who starts out to say something new on this oft-treated subject. Of course, the human element of the world would not exist without woman, so the question is gratuitous. It would have been far more sensible to ask, "What would the world do without the salvation of woman, without a panacea for her physical ills and cure for her peculiar diseases. In a word, what would the world do without Dr. Pierce's 'Favorite Prescription,' the great remedy for female weaknesses? It is indispensable for the life of womankind."

Anna Dickinson began life as a school teacher.

Why not get a church or school bell, when Z. T. Wright, Portland, sells them so cheap.

TESTIMONIAL FROM ASSEMBLYMAN EDWARD A. DARAGAH.

STATE OF NEW YORK, ASSEMBLY CHAMBER, ALBANY, April 16, 1884.

Some years ago I was thrown from a wagon and fractured two of my ribs. I was so badly hurt that I had to sit up in a chair for four days and nights. The fourth day my mother placed two Alloca's Plaster over my broken ribs. The next day my sufferings diminished and I was able to lie down. I continued to improve every day. Two weeks after the accident I got up and attended to business. I renewed the plasters twice, and found myself almost entirely well in a month, when I sailed for England.

My wife is subject to periodic pains in the back that give her rest, neither day nor night, but twice a hour after applying two Alloca's Plasters she experiences relief, and in two or three days she is well. She also finds them effective in neuralgia and rheumatism. EDWARD A. DARAGAH.

"Brown's Bronchial Troches" are widely known as an admirable remedy for Bronchitis, Hoarseness, Coughs and Throat troubles. Sold only in boxes.

Z. T. Wright, Portland, has the Westinghouse Thresher and Engines.

3 months' treatment for \$50. Piso's Remedy for Catarrh Sold by druggists.

Sarah Bernhardt is a dressmaker's apprentice; so was Matilda Heron.

NIGHTMARE, depression of spirits and want of ambition are symptoms of a diseased liver. The lungs, stomach and bowels are all in sympathy. Life is only a living death. Dr. Pierce's "Golden Medical Discovery" acts as a support to the torpid liver, and effectually removes all these difficulties and disorders. Nervous feelings, gloomy forebodings, and irritability of temper all disappear.

Gambling has been stopped in Omaha by the city authorities.

Beauty of Skin & Scalp RESTORED by the CUTICURA Remedies. NOTHING IS KNOWN TO SCIENCE AT all comparable to the CUTICURA REMEDIES in their marvelous properties of cleansing, purifying and beautifying the skin and in curing torturing, disfiguring, itching, scaly and pimply diseases of the skin, scalp and blood, with loss of hair.

Dr. PARDEE'S REMEDY is the Greatest Blood Cleanser. Cures Humors, all Rheum, Crofula, Gatica, Rheumatism, AND Regulates The Kidneys & Liver. One bottle taken according to directions will give better results than a gallon of Sarsaparilla, or any of the so-called Blood Purifiers with which the market is glutted. At Druggists, price \$1.00 per bottle.

Send for descriptive circular. Liberal inducements to agents.

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STEINWAY KRANICH & BACH, Builders, Hosiery, Piano, Burdett Organs, band instruments. Largest stock of Sheet Music and Books. Bands supplied at Eastern prices. M. GHAY, 26 Post street, San Francisco.

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Charlotte Cushman was the daughter of poor people.

Young or middle-aged men suffering from nervous debility and kindred weaknesses should send 10 cents in stamps for large illustrated treatise suggesting sure means of cure. World's Dispensary Medical Association, Buffalo, N. Y.

Adelaide Neilson began life as a child's nurse.

The Advance Thresher is the best. Z. T. Wright, Portland, for particulars.

When Baby was sick we gave her Castoria. When she was a Child, she cried for Castoria. When she became Miss, she clung to Castoria. When she had Children, she gave them Castoria.

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READ THIS CAREFULLY. Every man and woman young or old, on this Coast, that is afflicted with any disease, no matter what, their family physician does not understand, or cannot cure, should write a full description of their trouble to Dr. Follen, or get on the train and visit him. He is provided with every instrument of surgery, and the best medicines to be had for money. Consultations free. Hospital questions given, read in the best medical journals strictly confidential. Enclose stamp. Address: Dr. FOLLEN, M. D., offices, 5, 7 and 12, First National Bank, Portland, Oregon.

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The question has probably been asked thousands of times: "How can Brown's Iron Bitters cure everything? Well, it doesn't. But it does cure my disease for which a reputable physician would prescribe this medicine, because it is the best remedy known to the profession, and inquiry of any leading chemist will substantiate the assertion that there are more preparations of iron than of any other substance used in medicine. This shows conclusively that iron is acknowledged to be the most important factor in successful medical practice. It is, however, remarkable fact, that prior to the discovery of BROWN'S IRON BITTERS, no perfectly satisfactory iron combination had ever been found.

BROWN'S IRON BITTERS does not injure the stomach, or produce constipation—all other iron medicines do. BROWN'S IRON BITTERS cures Indigestion, Biliousness, Weakness, Lymphemia, Malaria, Chills and Fevers, Tired Feeling, General Debility, Pain in the Side, Back or Limbs, Headache and Neuralgia—for all these ailments Iron is resorted to daily.

BROWN'S IRON BITTERS, however, does not injure the stomach, or produce constipation. It acts slowly. When taken by a man the first symptom of health is renewed energy. The muscles then become firmer, the digestion improves, the bowels are regular, the complexion is usually more rapid and marked. It gives new life to the system. The skin becomes healthy, clear, and the complexion is bright. Nervousness, functional derangement becomes regular, and if a woman is suffering from this disease, it is supplied for the child. Remember Brown's Iron Bitters is the ONLY iron medicine that is not injurious. Physicians and Druggists receive it in large quantities. The Genuine has Trade Mark and crossed red lines on wrapper. TAKE NO OTHER.

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